



DAILY GEOLOGICAL REPORT

WELL TUNALIK #1 Date 4-10-79 Time 06:00  
 Present Depth 12,557 Previous Depth 12,557 Footage 24 Hrs. 0  
 Formation(s) KINGAK/KINGAK SS Top 11,665'/12,549'  
 Present Activity: Circle and cond for gas w/15.0 ppg mud through choke

LITHOLOGIC DESCRIPTION

Interval Reported \_\_\_\_\_ Sampling Interval \_\_\_\_\_ ft. Sample Quality \_\_\_\_\_  
 Log Time \_\_\_\_\_ min. @ \_\_\_\_\_ ft.

Interval	Description	Avg. Drill Rate min./ft.

SHOW DESCRIPTION (Gas and/or Oil)


Circle through choke - no gas readings available

Ditch Gas (Units): Background \_\_\_\_\_ Connection \_\_\_\_\_ Trip \_\_\_\_\_ Peaks \_\_\_\_\_  
 15.0 in  
 14.5 cut  
 Mud: Wt \_\_\_\_\_ Vis 50 W.L. 10.0 pH 9.0 cc Oil 0 G.C. 25,000 Temp. NR °F. in NR °F. out

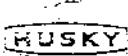
Data Unit:

Depth	Shale Density	Dt Exponent	Pore Pressure

Dispatched Samples:

Type	Interval	No. of Boxes	Set No.
Washed & Dried Ditch			
Unwashed Ditch (Paleo)			
Unwashed Ditch (USGS)			
GeoChem (canned)			
Cores	No.		

Geology DAVE FENEX



DAILY GEOLOGICAL REPORT

WELL TONALIK #1 Date 4-11-79 Time 06:00
Present Depth 12,557' Previous Depth 12,557' Footage 24 Hrs. 0
Formation(s) KINGAK/KINGAK SS Top 12,665'/12,549'
Present Activity: Circ & Cond w/15.1 ppg mud through choke

LITHOLOGIC DESCRIPTION

Interval Reported Sampling Interval ft. Sample Quality
Lag Time: min. @

Table with columns: Interval, Description, Avg. Drill Rate min/ft. (Empty rows)

SHOW DESCRIPTION (Gas and/or Oil)

Table with columns: Interval, Description (Empty rows)

Bypassing shakers

Ditch Gas (Gpm) Background 0.0 Top Peaks
15.0 out 10% LOM
15.1 in Vis 50 W.L. 12 9.0 1.0 7 CI 23,000 Temp. 98

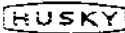
Data Chart

Table with columns: Depth, Shale Density, Dr. Exponent, Pore Pressure (Empty rows)

Prepared Samples

Table with columns: Type, No. of Boxes, Section (Empty rows)

DAVE FENEX



DAILY GEOLOGICAL REPORT

WELL TUNALIK #1 Date 4-12-79 Time 06:00  
 Present Depth 12,557' Previous Depth 12,557' Footage 24 Hrs. 0  
 Formation(s) KINGAK;KINGAK SS Top 12,565'; 12,549'  
 Present Activity: Attempt to kill well w/15.2 bpm mud; csg pressure declined to 300 psi

LITHOLOGIC DESCRIPTION

Interval Reported \_\_\_\_\_ Sampling Interval \_\_\_\_\_ ft. Sample Quality \_\_\_\_\_  
 Lag Time \_\_\_\_\_ min. @ \_\_\_\_\_ ft.

Interval	Description	Avg. Drill Rate min. ft.

SHOW DESCRIPTION (Gas and/or Oil)

12,557' \_\_\_\_\_ Chromatograph (cpm)  
 (sampled @ \_\_\_\_\_) \_\_\_\_\_  
 (gas/bubble) \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

Ditch Gas/Utility: Background   Continuation   Trip   Peaks    
 15.2 in \_\_\_\_\_  
 14.7 out \_\_\_\_\_  
W. 55 W.L. 8.0 pH 6.8 T.D.   Temp. 114 SP 124 IP  

Log Unit:

Depth	Strat. Density	D <sub>g</sub> Equivalent	Pore Pressure

Degraded Samples:

Type	Location	No. of Boxes	Status
Washed & Dried Ditch			
Unwashed Ditch (Paleo)			
Unwashed Ditch (USGS)			
Old Sample Returned			
Cross	No.		

DAVE FENEX





CONVENTIONAL SURVEY DIVISION  
DAILY GEOLOGICAL REPORT

WELL TUNALIK #1 Date 2-14-79 Time 06:00  
 Present Depth 12,557' Previous Depth 12,557' Footage 24 Hrs. 0  
 Formation(s) KINGAK/KINGAK SS Top 11,665'/12,549'  
 Present Activity: Attempting to kill well; mud in @ 15.2, out at 14.6 ppg; no losses at report time; holding 710 psi on drill pipe and 320 psi on csg.

LITHOLOGIC DESCRIPTION

Interval Reported \_\_\_\_\_ Sampling Interval \_\_\_\_\_ ft. Sample Quality \_\_\_\_\_  
 Log Time \_\_\_\_\_ min. @ \_\_\_\_\_ ft.

Interval	Description	Avg. Drill Rate min./hr.

FLUID DESCRIPTION (Gas and or Oil)

Fluid Characteristics

Background \_\_\_\_\_ Clay Content \_\_\_\_\_ Top \_\_\_\_\_ Pesas \_\_\_\_\_  
 Sp. Gr. 15.2 Vp 55 Wt. 8.0 p 9.0 HCl 13,000 Temp. 106 Sp. Gr. 110

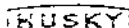
Pressure

Depth	Static Pressure	Dr. Exposure	Pore Pressure

Number of Samples:

Type	Depth	Number Boxes	Serial No.
Sealed & Dried Drith			
Unsealed Drith (Pacen)			
Unsealed Drith (USGS)			
Unsealed (Unwashed)			
Core	No.		

DAVE FENEX



INDUSTRIAL SURVEY CORP.

DAILY GEOLOGICAL REPORT

WELL TONALIK #1 Date 4-15-79 Time 06:00  
 Present Depth 12,557' Previous Depth 12,557' Footage 24 Hrs. 0  
 Formation(s) KINGAK/KINGAK SS? Top 12,663' / 12,549'  
 Present Activity Attempting to kill well; circ mod at report time.

LITHOLOGIC DESCRIPTION

Interval Reported \_\_\_\_\_ Sampling Interval \_\_\_\_\_ ft. Sample Quality \_\_\_\_\_  
 Log Time: \_\_\_\_\_ min. \_\_\_\_\_ hr.

Interval	Description	Avg. Drill Rate min. ft.

SHOW DESCRIPTION (Gas and/or Oil)

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Drill Gas Log

Background \_\_\_\_\_ Depth \_\_\_\_\_ Feet \_\_\_\_\_

Vol. Wt. 15.3 Vol. 55 Wt. 8 Gr. 8.0 \_\_\_\_\_ Crd. 12,600 \_\_\_\_\_ SR. \_\_\_\_\_ AF. \_\_\_\_\_

Drill Tools

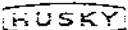
Depth	State Drill	Dr. Equipment	Core Photo Log

Inventory Summary

Type	Quantity	No. of Boxes	Box No.
Washed & Dried Drift			
Unwashed Drift (Fails)			
Unwashed Drift (USGS)			
Gas Chrom. Tubes			
Core			

DAVE FENEX

\_\_\_\_\_



WELL                      TONALIK #                      Date 4-16-78 Time 06:00  
 Present Depth 12,557' Previous Depth 12,557' Footage 14 Hrs. 0  
 Formation(s) KINGAK; KINGAK SS Top 12,565'; 12,549'  
 Present Activity: Attempting to kill well w/15.4 ppg mud.

LITHOLOGIC DESCRIPTION

Interval Reported                      Sampling Interval                      ft. Sample Quality                       
 Log Time:                      min. @                      ft.

Interval	Description	Avg. Drill Rate min. / ft.

FLOW DESCRIPTION (Gas and/or Oil)


Mud/Gel Content: Background                      Mud                      Fz%                       
 15.4 lb  
 15.4 lb RT% 36 w.L. 8.0 p. 9.2 g. 1.1 - 1000 15,000 Temp 100 95. w 100 8

Core Data

Core No.	Core Depth	Core Length	Core Diameter	Core Weight

Core Samples

Type	Location	No. of Boxes	Box No.























10000

FIELD REPORT

WELL: \_\_\_\_\_ STAKE # \_\_\_\_\_ DATE: \_\_\_\_\_

From Depth: 12,500' To Depth: 12,530' From To (ft) \_\_\_\_\_

Formation(s): \_\_\_\_\_

Presented by: \_\_\_\_\_

LITHOLOGIC DESCRIPTION

Interval Reported \_\_\_\_\_ Sample No. \_\_\_\_\_ No. Samples Collected \_\_\_\_\_  
Log Time \_\_\_\_\_

Interval \_\_\_\_\_ Avg. Drill Rate \_\_\_\_\_

SHOULDER SECTION (Cut and/or Oil)

Depth (ft) \_\_\_\_\_ Background \_\_\_\_\_

\_\_\_\_\_ 15.4 50 7.0 6.0 0 21.00



HUSKY OIL OPERATIONS, INC.  
U. S. GEOLOGICAL SURVEY/ONPRA

DAILY GEOLOGICAL REPORT

WELL TUNALIK #1 Date 4-27-79 Time 06:00  
Present Depth 12,557' Previous Depth 12,557' Footage 24 Hrs. 0  
Formation(s) KINGAK; KINGAK SS Top 11,665'; 12,549'  
Present Activity: Circ; mix barite pill; lost 136 bbls past 24 hrs.

**LITHOLOGIC DESCRIPTION**

Interval Reported \_\_\_\_\_ Sampling Interval \_\_\_\_\_ ft. Sample Quality \_\_\_\_\_  
Log Time: \_\_\_\_\_ min. @ \_\_\_\_\_ ft.

Interval	Description	Avg. Drill Rate min./ft.

**SHOW DESCRIPTION (Gas and/or Oil)**


Ditch Gas (Units): Background \_\_\_\_\_ Connection \_\_\_\_\_ Trip \_\_\_\_\_ Peaks \_\_\_\_\_

Mud: Wt. 15.4 Vls 50 W.L. 5.5 ph 9.0 cc Oil 0 % Cl<sub>2</sub> 23,000 Temp. - °F. in - °F. out

**Data Unit:**

Depth	Shale Density	Dc Exponent	Pore Pressure

**Dispatched Samples:**

Type	Interval	No. of Boxes	Set No.
Washed & Dried Ditch			
Unwashed Ditch (Paleo)			
Unwashed Ditch (USGS) GeoChem (canned)			
Cores	No.		



HUSKY OIL NPR OPERATIONS, INC.  
 U. S. GEOLOGICAL SURVEY, ONPRA

DAILY GEOLOGICAL REPORT

WELL TINALIX #1 Date 4-25-79 Time 06:00  
 Present Depth 12,557' Previous Depth 12,557' Footage 24 Hrs. 0  
 Formation(s) KINGAK: KINGAK SS Top 11,665'; 12,549'  
 Present Activity: Spotted barite plug on btm; circ and cond hole w/hydril open at report time.

LITHOLOGIC DESCRIPTION

Interval Reported \_\_\_\_\_ Sampling Interval \_\_\_\_\_ ft. Sample Quality \_\_\_\_\_  
 Log Time: \_\_\_\_\_ min. @ \_\_\_\_\_ ft.

Interval	Description	Avg. Drill Rate min./ft.

SHOW DESCRIPTION (Gas and/or Oil)


Ditch Gas (Units): Background \_\_\_\_\_ Connection \_\_\_\_\_ Trip \_\_\_\_\_ Peaks \_\_\_\_\_

Mud: Wt. \_\_\_\_\_ Vis \_\_\_\_\_ W.L. \_\_\_\_\_ ph \_\_\_\_\_ cc Oil \_\_\_\_\_ % Cl<sub>2</sub> \_\_\_\_\_ Temp. \_\_\_\_\_ °F. in \_\_\_\_\_ °F. out \_\_\_\_\_

Data Unit:

Depth	Shale Density	Dc Exponent	Pore Pressure

Dispatched Samples:

Type	Interval	No. of Boxes	Set No.
Washed & Dried Ditch			
Unwashed Ditch (Paleo)			
Unwashed Ditch (USGS)			
GeoChem (canned)			
Cores	No. _____		

Geologist \_\_\_\_\_



DAILY GEOLOGICAL REPORT

WELL TUNALEK #1 Date 4-29-79 Time 06:00

Present Depth 12,557' Previous Depth 12,557' Footage 24 Hrs. 0

Formation(s) KINGAK; KINGAK SS Top 11,665'; 12,549'

Present Activity: Circ w/hydril open; 15.4 mud in - 14.9 mud out

LITHOLOGIC DESCRIPTION

Interval Reported \_\_\_\_\_ Sampling Interval \_\_\_\_\_ ft. Sample Quality \_\_\_\_\_  
Lag Time: \_\_\_\_\_ min. @ \_\_\_\_\_ ft.

Interval	Description	Avg. Drill Rate min./ft.

SHOW DESCRIPTION (Gas and/or Oil)


Ditch Gas (Units): Background \_\_\_\_\_ Connection \_\_\_\_\_ Trip \_\_\_\_\_ Peaks \_\_\_\_\_

Mud: 15.4 in 14.9 out Vis 55 W.L. 7.0 ph \_\_\_\_\_ cc Oil 0 % Cl<sub>2</sub> 22,000 Temp. \_\_\_\_\_ °F. in \_\_\_\_\_ °F. out

Data Unit:

Depth	Shale Density	Dc Exponent	Pore Pressure

Dispatched Samples:

Type	Interval	No. of Boxes	Set No.
Washed & Dried Ditch			
Unwashed Ditch (Paleo)			
Unwashed Ditch (USGS)			
GeoChem (canned)			
Cores	No.		

Geologist: \_\_\_\_\_



DAILY GEOLOGICAL REPORT

WELL \_\_\_\_\_ TITSLER #1 \_\_\_\_\_ Date 4-30-79 \_\_\_\_\_ Time 06:00  
 Present Depth 12,557' Previous Depth 12,557' Footage 24 Hrs. 0  
 Formation(s) KINGAK: KINGAK SS Top 11,565'; 12,549'  
 Present Activity: Circ. at top of barite plug at 12,499' w/15.4 ppg mud in and out.

LITHOLOGIC DESCRIPTION

Interval Reported \_\_\_\_\_ Sampling Interval \_\_\_\_\_ ft. Sample Quality \_\_\_\_\_  
 Lag Time: \_\_\_\_\_ min. @ \_\_\_\_\_ ft.

Interval	Description	Avg. Drill Rate min./ft.

SHOW DESCRIPTION (Gas and/or Oil)


Ditch Gas (Units): Background 2300 Connection \_\_\_\_\_ Trip \_\_\_\_\_ Peaks \_\_\_\_\_  
 15.4 in  
 15.4 out  
 Mud: Wt. \_\_\_\_\_ Vis 58 W.L. 7.5 ph 9.0 cc Oil \_\_\_\_\_ % Cl<sub>2</sub> 21,000 Temp. \_\_\_\_\_ °F. in \_\_\_\_\_ °F. out

Data Unit:

Depth	Shale Density	Dc Exponent	Pore Pressure

Dispatched Samples:

Type	Interval	No. of Boxes	Set No.
Washed & Dried Ditch			
Unwashed Ditch (Paleo)			
Unwashed Ditch (USGS)			
GeoChem (canned)			
Cores	No.		

Geologist \_\_\_\_\_





HUSKY OIL NPR OPERATIONS, INC.  
 U. S. GEOLOGICAL SURVEY, ONPRA

DAILY GEOLOGICAL REPORT

WELL TINALIK #1 Date 5-2-79 Time 06:00  
 Present Depth 12,557' Previous Depth 12,557' Footage 24 Hrs. 0  
 Formation(s) KINGAK; KINGAK SS Top 11,565'; 12,549'  
 Present Activity: Circle thru choke; bit at 10,921'

LITHOLOGIC DESCRIPTION

Interval Reported \_\_\_\_\_ Sampling Interval \_\_\_\_\_ ft. Sample Quality \_\_\_\_\_  
 Lag Time: \_\_\_\_\_ min. @ \_\_\_\_\_ ft.

Interval	Description	Avg. Drill Rate min./ft.

SHOW DESCRIPTION (Gas and/or Oil)


Ditch Gas (Units):

Background \_\_\_\_\_ Connection \_\_\_\_\_ Trip \_\_\_\_\_ Peaks \_\_\_\_\_  
 15.2 in  
 Mud: Wt. 14.9 out Vis 55 W.L. 8.5 ph 9.0 cc Oil 0 % Cl<sub>2</sub> 18,000 Temp. \_\_\_\_\_ °F. in \_\_\_\_\_ °F. out

Data Unit:

Depth	Shale Density	Dc Exponent	Pore Pressure

Dispatched Samples:

Type	Interval	No. of Boxes	Set No.
Washed & Dried Ditch			
Unwashed Ditch (Paleo)			
Unwashed Ditch (USGS)			
GeoChem (canned)			
Cores	No.		

Geologist \_\_\_\_\_



HUSKY OIL NPR OPERATIONS, INC.  
U. S. GEOLOGICAL SURVEY/ONPRA

DAILY GEOLOGICAL REPORT

WELL TUNALIK #1 Date 5-9-79 Time 26:00  
Present Depth 12,557' Previous Depth 12,557' Footage 24 Hrs. 0  
Formation(s) KINGAK; KINGAK SS Top 11,665'; 12,549'  
Present Activity: Circ thro open choke; fluid loss approx 5-6 bbl/hr.

LITHOLOGIC DESCRIPTION

Interval Reported \_\_\_\_\_ Sampling Interval \_\_\_\_\_ ft. Sample Quality \_\_\_\_\_  
Lag Time: \_\_\_\_\_ min. @ \_\_\_\_\_ ft.

Interval	Description	Avg. Drill Rate min./ft.

SHOW DESCRIPTION (Gas and/or Oil)

Ditch Gas (Units): Background \_\_\_\_\_ Connection \_\_\_\_\_ Trip \_\_\_\_\_ Peaks \_\_\_\_\_

Med: Wt. 15.4 Vis 60 W.L. 8.5 pH 9.5 cc Oil 0 Cl<sub>2</sub> 12,000 Temp. \_\_\_\_\_ °F. in \_\_\_\_\_ °F. out

Data Unit:

Depth	Stale Density	Du Exponent	Pore Pressure

Dispatched Samples:

Type	Interval	No. of Boxes	Est No.
Washed & Dried Ditch			
Unwashed Ditch (Paleo)			
Unwashed Ditch (USGS)			
GeoChem (canned)			
Cores	No.		







HUSKY OIL NPR OPERATIONS, INC.
U. S. GEOLOGICAL SURVEY/DNTPRA

DAILY GEOLOGICAL REPORT

WELL TURMALIK #1 Date 5-5-79 Time 06:00

Present Depth 12,557' Previous Depth 12,557' Footage 24 Hrs. 0

Formation(s) KINGAK; KINGAK SS Top 11,665'; 12,549'

Present Activity: Circ w/choke full open. gained 58 bbls mud past 24 hrs.

LITHOLOGIC DESCRIPTION

Interval Reported Sampling Interval Sample Quality
Lag Time: min. & ft.

Table with 3 columns: Interval, Description, Avg. Drill Rate (min./ft.)

SHOW DESCRIPTION (Gas and/or Oil)

Blank lines for showing description of gas and/or oil.

Ditch Gas (Units): Background Connection Trip Peaks
15.2 in
14.2-14.6 out
Vis 58 Wt. 9.0 pH 9.0 0 Cl- 22,000 Temp. °F. in °F. out

Table with 4 columns: Temp., Sp. Gravity, Bu. Pressure, Ditch Pressure

Dispatched Samples:

Table with 4 columns: Sample Type, No., Date, Col. No.

Geologist:



















HUSKY OIL OPERATIONS, INC.  
U. S. GEOLOGICAL SURVEY, ONPRA

DAILY GEOLOGICAL REPORT

WELL TINALEIK #1 Date 5-13-79 Time 06:00  
Present Depth 12,557' Previous Depth 12,557' Footage 24 Hrs. 0  
Formation(s) HINGAKI, KINGAN S5 Top 12,565'; 12,549'  
Present Assembly Circ 15.6 mud on choke.

SHOW DESCRIPTION (Gas and/or Oil)

Drill Core

Background \_\_\_\_\_

Remarks

















HUSKY OIL OPERATIONS, INC.  
U. S. GEOLOGICAL SURVEY/ONPRA

DAILY GEOLOGICAL REPORT

WELL TUNALIK #1 Date 6-20-79 Time 06:00  
Present Depth 12,557' Previous Depth 12,557' Footage 24 Hrs. 0  
Formation(s) KINGAK; KINGAK SS Top 11,665'; 12,549'  
Present Activity: Circ thru flow line w/15.9 mud, bit @ 12,446'; gained 74 bbls mud 24 hrs.

LITHOLOGIC DESCRIPTION

Interval Reported \_\_\_\_\_ Sampling Interval \_\_\_\_\_ ft. Sample Quality \_\_\_\_\_  
Lag Time: \_\_\_\_\_ min. @ \_\_\_\_\_ ft.

Interval	Description	Avg. Drill Rate min./ft.

SHOW DESCRIPTION (Gas and/or Oil)


Ditch Gas (Units): Background 2250-1700 Connection \_\_\_\_\_ Trip \_\_\_\_\_ Peaks \_\_\_\_\_  
Mud: Wt. <sup>15.9 in</sup> <sub>14.1-14.5 out</sub> Vis 43 W.L. 9.0 ph 9.0 cc Oil 0 % Cl<sub>2</sub> 16500 Temp. \_\_\_\_\_ °F. in \_\_\_\_\_ °F. out

Data Unit:

Depth	Shale Density	Dc Exponent	Pore Pressure

Dispatched Samples:

Type	Interval	No. of Boxes	Set No.
Washed & Dried Ditch			
Unwashed Ditch (Paleo)			
Unwashed Ditch (USGS)			
GeoChem (canned)			
Cores	No.		

Geologists: \_\_\_\_\_



HUSKY OIL OPERATIONS, INC.  
U. S. GEOLOGICAL SURVEY/ONPRA

DAILY GEOLOGICAL REPORT

WELL TUNALIK #1 Date 5-21-79 Time 05:00  
 Present Depth 12,557' Previous Depth 12,557' Footage 24 hrs. 0  
 Formation(s) KINGAK; KINGAK SS Top 11,665'; 12,549'  
 Present Activity: Circ at 12,432' w/LCM after tripping out and changing bit hole assembly.

LITHOLOGIC DESCRIPTION

Interval Reported \_\_\_\_\_ Sampling Interval \_\_\_\_\_ ft. Sample Quality \_\_\_\_\_  
 Lag Time: \_\_\_\_\_ min. @ \_\_\_\_\_ ft.

Interval	Description	Avg. Drill Rate min./ft.

SHOW DESCRIPTION (Gas and/or Oil)


Ditch Gas (Units): Background 3000+ Connection \_\_\_\_\_ Trip \_\_\_\_\_ Peaks \_\_\_\_\_  
16.0 in  
 Mud: 13.5-14.1 out Wt. 44 Vis 44 W.L. 9.0 ph 9.0 cc Oil 0 % Cl<sub>2</sub> 16500 Temp. \_\_\_\_\_ °F. in \_\_\_\_\_ °F. out

Data Unit:

Depth	Shale Density	Dc Exponent	Pore Pressure

Dispatched Samples:

Type	Interval	No. of Boxes	Set No.
Washed & Dried Ditch			
Unwashed Ditch (Paleo)			
Unwashed Ditch (USGS)			
GeoChem (canned)			
Cores	No.		

Geologist: \_\_\_\_\_



HUSKY OIL OPERATIONS, INC.  
U. S. GEOLOGICAL SURVEY/CNPR

DAILY GEOLOGICAL REPORT

WELL TUNALIK #1 Date 5-22-79 Time 06:00  
Present Depth 12,557' Previous Depth 12,557' Footage 24 Hrs. 0  
Formation(s) KINGAK; KINGAK SS Top 11,665'; 12,549'  
Present Activity: Kelly plugged at report time.

**LITHOLOGIC DESCRIPTION**

Interval Reported \_\_\_\_\_ Sampling Interval \_\_\_\_\_ ft. Sample Quality \_\_\_\_\_  
Lag Time: \_\_\_\_\_ min. @ \_\_\_\_\_ ft.

Interval	Description	Avg. Drill Rate min./ft.

**SHOW DESCRIPTION (Gas and/or Oil)**


**Ditch Gas (Units):** Background \_\_\_\_\_ Connection \_\_\_\_\_ Trip \_\_\_\_\_ Peaks \_\_\_\_\_

Mud: Wt. \_\_\_\_\_ Vis \_\_\_\_\_ W.L. \_\_\_\_\_ ph \_\_\_\_\_ cc Oil \_\_\_\_\_ % Cl<sub>2</sub> \_\_\_\_\_ Temp. \_\_\_\_\_ °F. in \_\_\_\_\_ °F. out \_\_\_\_\_

**Data Unit:**

Depth	Shale Density	Dc Exponent	Pore Pressure

**Dispatched Samples:**

Type	Interval	No. of Boxes	Set No.
Washed & Dried Ditch			
Unwashed Ditch (Paleo)			
Unwashed Ditch (USGS)			
GeoChem (canned)			
Cores	No.		



DAILY GEOLOGICAL REPORT

WELL TUNALIK #1 Date 5-23-79 Time 06:00  
Present Depth 12,557' Previous Depth 12,557' Footage 24 Hrs. 0  
Formation(s) KINGAK; KINGAK SS Top 11,665'; 12,549'  
Present Activity: RIH from 8264'; gained 142 bbls, lost 142 bbls.

LITHOLOGIC DESCRIPTION

Interval Reported \_\_\_\_\_ Sampling Interval \_\_\_\_\_ ft. Sample Quality \_\_\_\_\_  
Lag Time: \_\_\_\_\_ min. @ \_\_\_\_\_ ft.

Interval	Description	Avg. Drill Rate min./ft.

SHOW DESCRIPTION (Gas and/or Oil)


Ditch Gas (Units): Background \_\_\_\_\_ Connection \_\_\_\_\_ Trip \_\_\_\_\_ Peaks \_\_\_\_\_  
16.0 in  
15.1 - 14.7 out  
Mud: Wt \_\_\_\_\_ Vis 44 W.L. 10.0 ph 9.5 cc Oil 0 % Cl<sub>2</sub> 18000 Temp. \_\_\_\_\_ °F. in \_\_\_\_\_ °F. out

Data Unit:

Depth	Shale Density	Dc Exponent	Pore Pressure

Dispatched Samples:

Type	Interval	No. of Boxes	Set No.
Washed & Dried Ditch			
Unwashed Ditch (Paleo)			
Unwashed Ditch (USGS)			
GeoChem (canned)			
Cores	No.		

Geologist \_\_\_\_\_



HUSKY OIL & GAS OPERATIONS, INC.  
U. S. GEOLOGICAL SURVEY/ONPRA

DAILY GEOLOGICAL REPORT

WELL TUNALIK #1 Date 5-24-79 Time 06:00  
 Present Depth 12,557' Previous Depth 12,557' Footage 24 Hrs. 0  
 Formation(s) KINGAK; KINGAK SS Top 11,665'; 12,549'  
 Present Activity: Circ at 10,448'

LITHOLOGIC DESCRIPTION

Interval Reported \_\_\_\_\_ Sampling Interval \_\_\_\_\_ ft. Sample Quality \_\_\_\_\_  
 Lag Time: \_\_\_\_\_ min. @ \_\_\_\_\_ ft.

Interval	Description	Avg. Drill Rate min./ft.

SHOW DESCRIPTION (Gas and/or Oil)


Ditch Gas (Units): Background 2250-1900 Connection \_\_\_\_\_ Trip \_\_\_\_\_ Peaks \_\_\_\_\_  
 16.0 in  
 14.3 out  
 Mud: Wt \_\_\_\_\_ Vis 48 W.L 11.0 ph 9.5 cc Oil 0 % Cl<sub>2</sub> 18000 Temp. \_\_\_\_\_ °F. in \_\_\_\_\_ °F. out

Data Unit:

Depth	Shale Density	Dc Exponent	Pore Pressure

Dispatched Samples:

Type	Interval	No. of Boxes	Set No.
Washed & Dried Ditch			
Unwashed Ditch (Paleo)			
Unwashed Ditch (USGS)			
GeoChem (canned)			
Cores	No.		

Geologist: \_\_\_\_\_



HUSKY OIL NPR OPERATIONS, INC.  
U. S. GEOLOGICAL SURVEY/ONPRA

DAILY GEOLOGICAL REPORT

WELL TUNALIK #1 Date 5-25-79 Time 06:00

Present Depth 12,557' Previous Depth 12,557' Footage 24 Hrs. 0

Formation(s) KINGAK; KINGAK SS Top 11,665'; 12,549'

Present Activity: Circ @ 12,442'

**LITHOLOGIC DESCRIPTION**

Interval Reported \_\_\_\_\_ Sampling Interval \_\_\_\_\_ ft. Sample Quality \_\_\_\_\_  
Lag Time: \_\_\_\_\_ min. @ \_\_\_\_\_ ft.

Interval	Description	Avg. Drill Rate min./ft.

SHOW DESCRIPTION (Gas and/or Oil)


Ditch Gas (Units): Background 2100-1600 Connection \_\_\_\_\_ Trip \_\_\_\_\_ Peaks \_\_\_\_\_

Mud: 16.0 in  
15.8 out Vis 48 W.L. 12.0 ph 9.5 cc Oil 0 % Cl<sub>2</sub> 17000 Temp. \_\_\_\_\_ °F. in \_\_\_\_\_ °F. out

Data Unit:

Depth	Shale Density	De Exponent	Pore Pressure

Dispatched Samples:

Type	Interval	No. of Boxes	Set No.
Washed & Dried Ditch			
Unwashed Ditch (Paleo)			
Unwashed Ditch (USGS)			
GeoChem (canned)			
Cores	No.		



HUSKY OIL NPR OPERATIONS, INC.  
U. S. GEOLOGICAL SURVEY/ONPRA

DAILY GEOLOGICAL REPORT

WELL TYNALIK #1 Date 5-26-79 Time 06:00

Present Depth 12,557' Previous Depth 12,557' Footage 24 Hrs. 0

Formation(s) KINGAK; KINGAK Ss Top 11,665'; 12,549'

Present Activity: Circle at 12,480' (4th time around, mud 16.0 in, 14.7 out, 230 units ditch gas, no losses or gains)

LITHOLOGIC DESCRIPTION

Interval Reported \_\_\_\_\_ Sampling Interval \_\_\_\_\_ ft. Sample Quality \_\_\_\_\_  
Lag Time: \_\_\_\_\_ min. @ \_\_\_\_\_ ft.

Interval	Description	Avg. Drill Rate min./ft.

SHOW DESCRIPTION (Gas and/or Oil)


Ditch Gas (Units): Background \_\_\_\_\_ Connection \_\_\_\_\_ Trip \_\_\_\_\_ Peaks \_\_\_\_\_

Mud: Wt. \_\_\_\_\_ Vis \_\_\_\_\_ W.L. \_\_\_\_\_ ph \_\_\_\_\_ cc Oil \_\_\_\_\_ % Cl<sub>2</sub> \_\_\_\_\_ Temp. \_\_\_\_\_ °F. in \_\_\_\_\_ °F. out

Data Unit:

Depth	Shale Density	Dc Exponent	Pore Pressure

Dispatched Samples:

Type	Interval	No. of Boxes	Set No.
Washed & Dried Ditch			
Unwashed Ditch (Paleo)			
Unwashed Ditch (USGS)			
GeoChem (canned)			
Cores	No.		

Geologist \_\_\_\_\_



HUSKY OIL NPR OPERATIONS, INC.  
U. S. GEOLOGICAL SURVEY/ONPRA

DAILY GEOLOGICAL REPORT

WELL: TUNALIK #1 Date: 5-27-79 Time: 06:00

Present Depth: 12,557' Previous Depth: 12,557' Footage 24 Hrs.: 0

Formation(s): KINGAK; KINGAK SS Top: 11,665'; 12,549'

Present Activity: Circle at 12,511', 16 ppg mud in, 15.1 ppg mud out.

LITHOLOGIC DESCRIPTION

Interval Reported: \_\_\_\_\_ Sampling Interval: \_\_\_\_\_ ft. Sample Quality: \_\_\_\_\_

Lag Time: \_\_\_\_\_ min. @ \_\_\_\_\_ ft.

Interval	Description	Avg. Drill Rate min./ft.

SHOW DESCRIPTION (Gas and/or Oil)



Ditch Gas (Units): Background \_\_\_\_\_ Connection \_\_\_\_\_ Trip \_\_\_\_\_ Peaks \_\_\_\_\_

Mud: Wt. \_\_\_\_\_ Vis \_\_\_\_\_ W.L. \_\_\_\_\_ pH \_\_\_\_\_ cc Oil \_\_\_\_\_ % Cl<sub>2</sub> \_\_\_\_\_ Temp. \_\_\_\_\_ °F. in \_\_\_\_\_ °F. out \_\_\_\_\_

Data Unit:

Depth	Shale Density	Dc Exponent	Pore Pressure

Dispatched Samples:

Type	Interval	No. of Boxes	Set No.
Washed & Dried Ditch			
Unwashed Ditch (Paleo)			
Unwashed Ditch (USGS)			
GeoChem (canned)			
Cores	No.		





HUSKY OIL NPR OPERATIONS, INC.  
 U. S. GEOLOGICAL SURVEY/GMPRA

DAILY GEOLOGICAL REPORT

WELL TUNALIK #1 Date 5-28-79 Time 06:00  
 Present Depth 12,557' Previous Depth 12,557' Footage 24 Hrs. 0  
 Formation(s) KINGAK; KINGAK SS Top 11,665'; 12,549'  
 Present Activity: Circ at 12,507' open ended, prep to spot cut plug.

LITHOLOGIC DESCRIPTION

Interval Reported \_\_\_\_\_ Sampling Interval \_\_\_\_\_ ft. Sample Quality \_\_\_\_\_  
 Lag Time: \_\_\_\_\_ min. @ \_\_\_\_\_ ft.

Interval	Description	Avg. Drill Rate min./ft.

SHOW DESCRIPTION (Gas and/or Oil)


Ditch Gas (Units): Background \_\_\_\_\_ Connection \_\_\_\_\_ Trip \_\_\_\_\_ Peaks \_\_\_\_\_

Mud: Wt. \_\_\_\_\_ Vis \_\_\_\_\_ W.L. \_\_\_\_\_ ph \_\_\_\_\_ cc Oil \_\_\_\_\_ % Cl<sub>2</sub> \_\_\_\_\_ Temp. \_\_\_\_\_ °F. in \_\_\_\_\_ °F. out \_\_\_\_\_

Data Unit:

Depth	Shale Density	Dc Exponent	Pore Pressure

Dispatched Samples:

Type	Interval	No. of Boxes	Set No.
Washed & Dried Ditch			
Unwashed Ditch (Paleo)			
Unwashed Ditch (USGS)			
GeoChem (canned)			
Cores	No.		

Geologist \_\_\_\_\_



HUSKY OIL NPR OPERATIONS, INC.  
U. S. GEOLOGICAL SURVEY/ONPRA

DAILY GEOLOGICAL REPORT

WELL TUNALIK #1 Date 5-29-79 Time 06:00  
 Present Depth 12,557' Previous Depth 12,557' Footage 24 Hrs. 0  
 Formation(s) KINGAK; KINGAK SS Top 11,665'; 12,549'  
 Present Activity: POH; spotted cnt plug at 12,557-12,557'

LITHOLOGIC DESCRIPTION

Interval Reported \_\_\_\_\_ Sampling Interval \_\_\_\_\_ ft. Sample Quality \_\_\_\_\_  
 Lag Time: \_\_\_\_\_ min. @ \_\_\_\_\_ ft.

Interval	Description	Avg. Drill Rate min./ft.

SHOW DESCRIPTION (Gas and/or Oil)


Ditch Gas (Units): Background 128 Connection \_\_\_\_\_ Trip \_\_\_\_\_ Peaks \_\_\_\_\_  
 15.0 in  
Mud: Wt. 15.9 out  
 Vis 5l W.L. 12.8 pn 10.0 cc Oil - % Cl<sub>2</sub> 16,500 Temp. \_\_\_\_\_ °F. in \_\_\_\_\_ °F. out

Data Unit:

Depth	Shale Density	Dc Exponent	Pore Pressure

Dispatched Samples:

Type	Interval	No. of Boxes	Set No.
Washed & Dried Ditch			
Unwashed Ditch (Paleo)			
Unwashed Ditch (USGS)			
GeoChem (canned)			
Cores	No.		